

# APPENDIX C - *Endangered Species Act and Other Species Considerations Questions and Answers*

As requested by the U.S. Fish and Wildlife Service, the following questions are to be answered through watershed analysis. The resulting baseline information will then be available for use in planning and subsequent Section 7 consultation and monitoring of these species.

The Callahan watershed contains about 115,000 acres, approximately 63,000 acres are within the Forest boundary and covered by the EUI mapping. The remaining area of the watershed is agricultural land and residences. The EUI information was used to answer the following questions, and all the answers relate to the area covered by the EUI mapping.

## NORTHERN SPOTTED OWL

**1. Are spotted owl activity centers located within the watershed?** Yes; eight activity centers.

**1a. If so, how many and in what ROD land allocations are they located?** Of the eight activity centers, five are located in LSRs and three are in Matrix.

**1b. Which of these are currently above take thresholds and which are below?** Activity center KL-3022 is below the take threshold.

**1c. When were the activity centers located?** Refer to table below under the "History" column.

**1d. Describe the reproductive history.**

Activity Center	Acres in 0.7 Mile Circle	Acres in 1.3 Mile Circle	History
KL-0246	411	1,461	pair in 81, single in 89, nest in 91, single in 92, pair with young in 96
KL-1048	785	2,209	pair in 85, single in 89
KL-1049	629	1,512	pair with young in 88, pair with young in 90
KL-1050	693	1,896	single in 90, single in 95
KL-1051	787	2,373	pair in 82, pair with 3 young in 92, single 94
KL-3022	274	843	single female in 80, pair in 87, pair in 88, pair in 89, 2 young in 92, 2 young in 95, single in 96
KL-4024	580	1,780	young in 86, pair in 87, nest in 88, young in 89, young in 90, pair in 91, young in 92, single in 93
KL-4038	495	1,342	pair in 88, young in 89, pair in 90, young in 91, single in 93, single in 96;

**2. Has a 100 acre core area seen designation around each activity center located in matrix lands?** Yes, the three activity centers in matrix lands have the 100 acre core areas designated.

**3. How many acres of nesting, roosting, and foraging (NRF) habitat are there in the watershed?** There are 14,625 acres of nesting/roosting habitat and 21,015 acres of foraging habitat in the area of the watershed covered by the EUI mapping.

**3a. What percentage of the watershed is this?** Nesting/roosting = 24%, and foraging = 34%

**3b. Which of these stands have been surveyed to protocol (2 years)? 3c. Which were not?** All the stands have been surveyed, except for the Russian Wilderness. The only current surveys are those for the Jack planning area.

**4. What is the amount of NRF habitat in each ROD land allocation within the watershed?** Refer to Table 3-21 Suitable Spotted Owl Nesting/Roosting and Dispersal Habitat Acreage in Step 3.

**5. Does any portion of the watershed contain LSRs?** Yes, it contains a portion of the Eddy Gulch LSR and the Cement Banks LSR.

**5a. What percent of the total watershed is this?** It is 10,738 acres which is 17% of the watershed area covered by EUI.

**5b. What are the current totals of NRF habitat and capable habitat in the LSR?** Eddy Gulch LSR: nesting/roosting = 4,950 acres, foraging = 1,700 acres, and capable = 24 acres; Cement Banks LSR: nesting/roosting = 637 acres, foraging = 560 acres, and capable = 126 acres.

**6. What is the amount of dispersal habitat (11-40 and above) in each ROD land allocation within the watershed?** Refer to Table 3-21 Suitable Spotted Owl Nesting/Roosting and Dispersal Habitat Acreage in Step 3.

**7. Is distance between LSRs (those over 10,000 acres) greater than 4 miles?** See the late-successional habitat and connectivity section of the document for a discussion of dispersal habitat and connectivity for spotted owls for answers through 7f.

7a. If so, then what is the amount of dispersal habitat on Federal lands for all 1/4 townships between the LSRs?

7b. What % of the total Federal lands in these 1/4 townships is this?

7c. How much (% and total) of the dispersal habitat is in Riparian Reserves, Admin. Withdrawal (which provide long-term protection), Congressionally Reserved, 100 acre cores, and smaller (<10,000 acres) LSRs?

7d. Is this total greater than 50%?

7e. Describe, if present, the natural barriers to dispersal.

7f. Is connectivity, or dispersal habitat, sufficient to allow movement?

**8. How much critical habitat has been designated within the watershed?** 10,051 acres.

**8a. How much of this total overlaps with LSRs?** 9,218 acres.

**8b. For areas that do not overlap, how much is currently NRF habitat? And how much is capable?** Nesting/roosting = 373 acres, foraging = 97 acres, and capable = 120 acres.

**8c. How many activity centers are located in this non-overlap area of CHU?** None.

**8d. How many are currently above take? How many below? (Use acres established by FWS for .7 and 1.3 mile radius.)** N/A

**8e. What role does this non-overlap critical habitat play in this watershed in relation to the reasons for the designation of the CHU?** The non-overlap critical habitat was intended as a stepping stone of nesting habitat in an area of fragmented habitat, checkerboard landownership, and alpine forest adjacent to wilderness.

## **BALD EAGLE**

**For a discussion of bald eagle use of the watershed, see the Terrestrial Wildlife section of the document.**

1. Are occupied bald eagle activity areas (nesting, foraging, winter roosts, or concentration areas) located within the watershed? 1a. If so, what type?

1b. How many?

1c. What ROD land allocations are they located?

1d. Describe reproductive history based on monitoring data.

1e. Has a final site-specific protection/management assessment been developed for each site?

1f. Does this watershed analysis corroborate the findings of the management assessment?

2. Has an assessment been made as to whether there are potential bald eagle activity areas (nesting, foraging, winter roosts, or concentration areas) located within the watershed?

2a. If so, what type?

2b. How many?

2c. What ROD land allocations are they located?

2d. Have these areas been surveyed to protocol to determine they are unoccupied?

3. Describe historical bald eagle occurrence and nesting within the watershed.

4. What is the status of the watershed as it relates to the Recovery Plan (target territories, including beyond watershed boundaries)?

4a. Does the watershed and the surrounding area meet objectives of the Recovery Plan?

4b. If not, then are there capable eagle activity areas located within the watershed?

4c. If capable activity areas are present, what type are they?

1). How many?

2). What ROD land allocations are they located?

4d. What type of project or enhancement could develop sites into potential or occupied sites?

5. If present, describe significant habitat within the watershed that is not under Federal ownership.

## **AMPHIBIANS**

**1. Have any amphibian inventories been done on a project or watershed level?** None have been done yet; surveys are planned for the Jack Planning area in 1997.

**1a. What species does the literature suggest may be present in the watershed?** Rough-skinned newt, long-toed salamander, Pacific giant salamander, black salamander, ensatina, Del Norte salamander, Siskiyou Mountain salamander, tailed frog, foothill yellow-legged frog, Cascades frog, western toad, and Pacific tree frog.

**2. Are sensitive species and ROD Table C-3 species present or possibly occur?** Possibly Del Norte salamander and Siskiyou Mountain salamander.

**3. Have intensive or extensive inventories been conducted in adjoining drainages/subwatersheds?** No.

**3a. If so, can those inventories be extrapolated to this watershed?** N/A

4. Are endemic species known to occur in the general geographic region? Del Norte salamander, Siskiyou Mountain salamander, tailed frog.

5. Are exotic species known or suspected to be in the watershed (e.g., bullfrogs)? Bullfrogs.

#### **PEREGRINE FALCON**

1. Are any cliffs located within the watershed (rock wall >50 feet)? None have been identified.

2. Are any cliffs present that are historic (pre-1975) or traditional (post-1975) peregrine eyries? No

3. For past projects near historic cliffs, have mitigation measures for habitat been considered? N/A

3a. At these historic cliffs, have surveys to protocol (Pagel 1992) been accomplished for at least 2 years prior to the activities? N/A

4. For traditional cliffs, have surveys/monitoring been conducted to determine nest site occupancy and reproductive status? N/A

4b. Has a draft or final site mgt. plan been created? 1). Is this plan based on site specific and PNW sub-population nesting ecology? N/A

5. Have the cliffs located been rated or monitored for falcon potential or presence? N/A

6. If cliffs are unrated, have surveys been accomplished to protocol? N/A

7. Describe site habitat variables within a 3 mile radius of historic and traditional nest sites, (cliff

parent material, distance to water/riparian, vegetative habitat, seral stages, human activities). N/A

#### **MARBLED MURRELET** (Zone 1 & 2)

The Callahan Watershed is outside of Marbled Murrelet Zone 2.

1. Are occupied sites within the watershed? N/A

2. Has a 0.5 mile radius mgt. area been delineated for each site? N/A

3. Within this mgt. are, what stands are currently murrelet habitat?

3a. What stands are recruitment habitat (capable of becoming suitable within 25 years; see ROD description)?

3b. What stands are non-habitat? N/A

4. Do stands of potential habitat exist in the watershed?

4a. Describe habitat (acres, quality, quantity, spatial relationship to nearby habitat).

4b. Describe past surveys.

4c. What stands of habitat have not been surveyed? N/A

5. Is there recruitment habitat in the watershed? At various points in the future (e.g., 25, 50, 100, 200 years), what will be the percent of the watershed that will be suitable habitat? N/A